HARESH GOYAL

🌐 hareshgoyal.ca | ✉ h23goyal@uwaterloo.ca | 🔲 haresh-goyal | ⓞ hareshgoyal06

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C++, C, Java, Python, HTML/CSS, Bash, SQL
Libraries: Next.js, React, Flask, Tailwind CSS, Node.js, Express.js, BrainFlow, Mediapipe, Mapbox, Three.js
Tools: Firebase, MongoDB, Figma, Jupyter Notebook, OpenCV, Git, Powershell, Auth0

EXPERIENCE

Full-Stack Engineer
January 2025 – Present
Savi Finance
Toronto, ON

- Architected a new component library of **10+ elements, widgets, and add-ons**, developed using React Native, React Native Paper and TypeScript.
- Integrated **GPT-4o, LlamaIndex, AWS S3** to streamline PDF/CSV transaction uploads, boosting precision and speed by **1000ms+**, while performing rigorous E2E-testing with **Jest** and **Cypress** in an **Agile** environment.
- Automated CI/CD staging/production deployments for **3 micro-services** using **Docker**, **Kubernetes**, **AWS EKS**, **AWS ECR** and **cron**, reducing **deployment times by 60%+**.
- Established **5+ GraphQL/JSON-RPC** endpoints and **AWS EKS microservices** to securely sync transactional data, enabling real-time financial comparisons on the web platform with **d3.js**.
- Collaborated in weekly meetings to discuss future action plans with design and engineering teams.

Full-Stack Engineer
February 2025 – Present
Swimingo
Toronto, ON

- Implemented **lazy loading**, **code-splitting**, and **server-side rendering (SSR)** to boost **search engine optimization (SEO)** and webpage loading times by **1500 ms+**, while ensuring optimal **Lighthouse test** scores.
- Iterated **3+ prototypes** through **Figma** and implementing components with **TypeScript**, **Tailwind** and **React**.
- Developed **2 dashboards** using **GraphQL**, **MongoDB**, and **Dockerized DB containers** resolving data mismatches.

Technical Analyst
June 2024 – Aug. 2024
Learning Enrichment Foundation
North York, ON

- Instructed digital literacy and career-building lectures to immigrant clients with class sizes **up to 50**.
- Founded a scalable system for the *Windfall Closet* initiative, providing free clothing to **125+ clients**.
- Organized events for communities to connect with up to **30 immigrant-led local businesses**.
- Deployed **multilingual** front-end features, improving accessibility and driving a **200% increase** in website traffic by incorporating user feedback.

PROJECTS

🔗 Khanscapes | *Next, Tailwind, React, Express*
Sept. 2024 – Present

- Deployed a **complete website** and **brand re-design** as a client-commissioned project.
- Expanded website traffic to **100+ MAU**, supplemented **by 300% more** conversions in the past few months.
- Implemented Agile methodologies to optimize the development lifecycle, ensuring **99% uptime** and enabling seamless website updates **2x faster**.

🔗 NeuroBlocks | *OpenBCI, Blockly, Brainflow API, Next, Flask*
Jan. 2025

- Deployed a **block-based IDE** (inspired by Scratch) to simplify **Brain-Computer Interface (BCI)** building.
- Captured seamless real-time EEG data processing supporting **10+ BCI use cases**, including Flappy Bird gameplay.
- Secured backing from a **California-based venture capital investor** specializing in BCI innovation..

🔗 UpTick | *Vue, FastAPI, Express, Node, PostgreSQL*
Sept. 2024

- Developed a passion project using real-time data from direct **APIs** and web scraping through **BeautifulSoup**.
- Integrated sentiment analysis using fine-tuned NLP and LLM models, processing **100,000+** market news articles, and implemented regression models to enhance stock trend predictions with **85%+ accuracy**.

EDUCATION

University of Waterloo
Expected April 2029
Candidate for Bachelor of Applied Science, Computer Engineering
Waterloo, ON